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Koper-Emde, D., L. Herrmann, B. Sandrock and B.-J. Benecke
RNA interference by small hairpin RNAs synthesised under control of the human 7S K RNA promoter *385*, 791–794

Lüersen, K., M.-L. Eschbach, E. Liebau and R.D. Walter
Functional GATA- and initiator-like-elements exhibit a similar arrangement in the promoters of *Caenorhabditis elegans* polyamine synthesis enzymes *385*, 711–721

Transcription factor

Balamurugan, K., D. Egli, A. Selvaraj, B. Zhang, O. Georgiev and W. Schaffner
Metal-responsive transcription factor (MTF-1) and heavy metal stress response in *Drosophila* and mammalian cells: a functional comparison *385*, 597–603

Huddleson, J.P., S. Srinivasan, N. Ahmad and J.B. Lingrel
Fluid shear stress induces endothelial KLF2 gene expression through a defined promoter region *385*, 723–729

Klein, C., F. Hesse, A. Dehner, R.A. Engh, M. Schwaiger and S. Hansen
In vitro folding and characterization of the p53 DNA binding domain *385*, 95–102

Wang, Y., I. Lorenzi, O. Georgiev and W. Schaffner
Metal-responsive transcription factor-1 (MTF-1) selects different types of metal response elements at low vs. high zinc concentration *385*, 623–632

Transcriptome

Daniel, H. and H. tom Dieck
Nutrient-gene interactions: a single nutrient and hundreds of target genes *385*, 571–583

Transport ATPase

van der Does, C. and R. Tampé
How do ABC transporters drive transport? *385*, 927–933

Trypsin

Tsybina, T., Y. Dunaevsky, A. Musolyamov, T. Egorov, N. Larionova, N. Popykina and M. Belozersky
New protease inhibitors from buckwheat seeds: properties, partial amino acid sequences and possible biological role *385*, 429–434

Tryptase

Imamura,T., J. Potempa and J. Travis
Activation of the kallikrein-kinin system and release of new kinins through alternative cleavage of kininogens by microbial and human cell proteinases *385*, 989–996

Tryptophan

Winkler, C., B. Wirleitner, K. Schroecksnadel, H. Schennach and D. Fuchs
St. John's wort (*Hypericum perforatum)* counteracts cytokine-induced tryptophan catabolism *in vitro 385*, 1197–1202

Tumor necrosis factor

Rether, J., G. Erkel, T. Anke and O. Sterner
Inhibition of inducible TNF-α expression by oxaspirodion, a novel spiro-compound from the ascomycete *Chaetomium subspirale 385*, 829–834

Tumor suppressor

Klein, C., F. Hesse, A. Dehner, R.A. Engh, M. Schwaiger and S. Hansen
In vitro folding and characterization of the p53 DNA binding domain *385*, 95–102

Tyramine

Padiglia, A., G. Floris, S. Longu, M.E. Schininà, J.Z. Pedersen, A. Finazzi Agrò, F. De Angelis and R. Medda
Inhibition of lentil copper/TPQ amine oxidase by the mechanism-based inhibitor derived from tyramine *385*, 323–329

Tyrosine kinase

van den Akker, E., T.B. van Dijk, U. Schmidt, L. Felida, H. Beug, B. Löwenberg and M. von Lindern
The Btk inhibitor LFM-A13 is a potent inhibitor of Jak2 kinase activity *385*, 409–413

Ultraspiracle protein

Przibilla, S., W.W. Hitchcock, M. Szécsi, M. Grebe, J. Beatty, V.C. Henrich and M. Spindler-Barth
Functional studies on the ligand-binding domain of Ultraspiracle from *Drosophila melanogaster 385*, 21–30

Virus-like particle

Toivola, J., P.O. Michel, L. Gilbert, T. Lahtinen, V. Marjomäki, K. Hedman, M. Vuento and C. Oker-Blom
Monitoring human parvovirus B19 virus-like particles and antibody complexes in solution by fluorescence correlation spectroscopy *385*, 87–93

Vitamin A

Merrill, R.A., J.M. Ahrens, M.E. Kaiser, K.S. Federhart, V.Y. Poon and M. Clagett-Dame
All-*trans* retinoic acid-responsive genes identified in the human SH-SY5Y neuroblastoma cell line and their regulated expression in the nervous system of early embryos *385*, 605–614